

MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Naval Jelly(R) Rust Dissolver
 Item No.: 80278
 Part No.: NJ-3
 Product Type: Rust Dissolver

NAVAL JELLY is a registered trademark of Naval Jelly Company

2. COMPOSITION, INFORMATION ON INGREDIENTS

| Ingredients | CAS No. | % |
|---|-------------|-------|
| Water | 7732-18-5 | 65-70 |
| PHOSPHORIC ACID | 7664-38-2 | 25-30 |
| ISOPROPYL ALCOHOL | 67-63-0 | 1-3 |
| Polysaccharide | 11138-66-2 | 1-3 |
| Surfactant | Proprietary | 1-3 |
| SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE | 112945-52-5 | 0.1-1 |
| SULFURIC ACID* | 7664-93-9 | 0.1-1 |

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

| Exposure Limits (TWA) Ingredients | ACGIH (TLV) | OSHA (PEL) | OTHER |
|---|--------------------------|--------------------------|---------------------------|
| PHOSPHORIC ACID | 1 mg/m3 TWA | 1 mg/m3 TWA | 1 mg/m3 |
| ISOPROPYL ALCOHOL | 400 ppm TWA 983 mg/m3 | 400 ppm TWA 980 mg/m3 | 400 ppm TWA DuPont AEL |
| SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE | 10 mg/m3 TWA | 6 mg/m3 TWA | 3 mg/m3 TWA resp. dust |
| SULFURIC ACID | 1 mg/m3 TWA | 1 mg/m3 TWA | None |

| Exposure Limits (STEL) Ingredients | ACGIH (TLV) | OSHA (PEL) |
|---------------------------------------|-----------------------|-----------------------|
| PHOSPHORIC ACID | 3 mg/m3 | 3 mg/m3 |
| ISOPROPYL ALCOHOL | 500 ppm 1230 mg/m3 | 500 ppm 1225 mg/m3 |
| SULFURIC ACID | 3 mg/m3 | None |

3. HAZARDS IDENTIFICATION

Toxicity: Skin, eye, and inhalation irritant.
 Toxic by ingestion.
 Primary Routes of Entry: Acids and alcohol: Inhalation, ingestion, contact.
 Signs and Symptoms of Exposure: May be injurious to eyes, skin, mucous membranes, and lungs.
 Existing Conditions Aggravated by Exposure: Respiratory disorders

| Ingredients | Literature Referenced Target Organ and Other Health Effects | Carcinogen | | |
|---|--|------------|------|------|
| | | NTP | IARC | OSHA |
| Water | NTD | NO | NO | NO |
| PHOSPHORIC ACID | COR IRR | NO | NO | NO |
| ISOPROPYL ALCOHOL | ALG BLO CNS IRR KID | NO | N/A | NO |
| Polysaccharide | IRR | NO | NO | NO |
| Surfactant | No Data | NO | NO | NO |
| SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE | NU1 | NO | N/A | NO |
| SULFURIC ACID | COR IRR LUN | NO | NO | NO |

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3. HAZARDS IDENTIFICATION (continued)

Abbreviations

| | |
|----------------------|----------------------------|
| N/A Not Applicable | ALG Allergen |
| BLO Blood | CNS Central nervous system |
| COR Corrosive | IRR Irritant |
| KID Kidney | LUN Lung |
| NTD No Target Organs | NUI Nuisance dust |

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation: Remove to fresh air. Keep individual calm. Obtain medical attention.
Skin Contact: Flush thoroughly with large quantities of water. Obtain medical attention.
Eye Contact: Flush with water for at least 15 minutes. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: None Method: None
Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical
Special Firefighting Procedures: Not available
Hazardous Products formed by Fire or Thermal Decomp: Oxides of phosphorous.
Unusual Fire or Explosion Hazards: Not flammable, but hydrogen gas may be liberated if product contacts powdered metals or metals above 185°F.
Explosive Limits:
(% by volume in air) Lower Not available
(% by volume in air) Upper Not available

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Maintain adequate ventilation. Neutralize with alkaline material such as soda ash or lime. Soak up with an inert material. Flush area with water. Store in closed container until disposal.

7. HANDLING AND STORAGE

Safe Storage: Keep from freezing.
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)
Handling: Avoid contact with skin and eyes. Avoid prolonged breathing of vapors.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
Skin: Rubber or plastic gloves.
Ventilation: Sufficient to maintain vapor concentration below TLV.
Respiratory: Not available
See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pink gel
Odor: Lime
Boiling Point: Approximately 212°F.
pH: 1.5-2.5
Solubility in Water: Complete

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9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Specific Gravity 1.191
Volatile Organic Compound (EPA Method 24) 5.17%; 60.4 grams per liter
Vapor Pressure: Low
Vapor Density: Not available
Evaporation Rate (Ether = 1) Not available

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Caustics and powdered metals.
Conditions to Avoid: Not available
Hazardous Decomposition Products (non-thermal): Hydrogen gas

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.
EPA Hazardous Waste Number D002 - Hazardous waste per 40CFR 261.22

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Consumer Commodity (Not more than four liters);
Compounds, cleaning, liquid, n.o.s. (More than four liters)
Hazard Class or Division: ORM-D (Not more than four liters);
Class 8, Packing Group III (More than four liters)
Identification Number: None (Not more than four liters);
NA 1760 (More than four liters)
Marine Pollutant: None
IATA
Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s.
(Contains phosphoric acid)
Class or Division: Class 8, Packing Group III
UN or ID Number: UN 3264

15. REGULATORY INFORMATION

CA Proposition 65: Warning: This product contains a chemical known to the State of California to cause cancer.

16. OTHER INFORMATION

Estimated NFPA(R) Code:
Health Hazard: 3
Fire Hazard: 0
Reactivity Hazard: 0
Specific Hazard: Does not apply

Estimated HMIS(R) Code:
Health Hazard: 3
Flammability Hazard: 0
Reactivity Hazards: 0
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.

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16. OTHER INFORMATION (continued)

HMIS is a registered trademark of the National Paint and Coatings Assn.

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